

**This Page is Inserted by IFW Indexing and Scanning
Operations and is not part of the Official Record**

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- ☐ BLACK BORDERS
- ☐ IMAGE CUT OFF AT TOP, BOTTOM OR SIDES
- ☐ FADED TEXT OR DRAWING
- ☐ BLURRED OR ILLEGIBLE TEXT OR DRAWING
- ☐ SKEWED/SLANTED IMAGES
- ☐ COLOR OR BLACK AND WHITE PHOTOGRAPHS
- ☐ GRAY SCALE DOCUMENTS
- ☐ LINES OR MARKS ON ORIGINAL DOCUMENT
- ☐ REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY
- ☐ OTHER: _____

IMAGES ARE BEST AVAILABLE COPY.

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.

21

PLUS Search Results for S/N 10089421, Searched September 22, 2004

The Patent Linguistics Utility System (PLUS) is a USPTO automated search system for U.S. Patents from 1971 to the present. PLUS is a query-by-example search system which produces a list of patents that are most closely related linguistically to the application searched. This search was prepared by the staff of the Scientific and Technical Information Center, SIRA.

5953666
5640691
5907805
5956645
6031833
6249584
6505044
6650873
4351987
6243568
4849989
5206638
5387902
5710764
5805995
6230024
6469998
6661893
6108374
6215827
6215827
6144841
5974133
4387425
4577313
4769771
5199026
5699388
5757891
5930712
5946313
6144647
6188900
4161720
4258230

10089421_LIST

4270185
4326264
4375099
4446555
4462022
4495493
4553234
4812628
5220564
5241686
5245656
5333175
5367394
5414700
5426633

10089421_CLSTITLES

Titles of Most Frequently Occurring Classifications of Patents Returned

From A Search of 10089421 on September 22, 2004

- 5 455/436 (2 OR, 3 XR)
Class 455 : TELECOMMUNICATIONS
455/403 RADIOTELEPHONE SYSTEM
455/422.1 .Zoned or cellular telephone system
455/436 ..Handoff
- 4 455/522 (0 OR, 4 XR)
Class 455 : TELECOMMUNICATIONS
455/39 TRANSMITTER AND RECEIVER AT SEPARATE STATIONS

455/500 .Plural transmitters or receivers (i.e., more
than two stations)
455/507 ..Central station (e.g., master, etc.)
455/517 ...To or from mobile station
455/522Transmission power control technique
- 3 370/329 (1 OR, 2 XR)
Class 370 : MULTIPLEX COMMUNICATIONS
370/310 COMMUNICATION OVER FREE SPACE
370/328 .Having a plurality of contiguous regions
served by respective fixed stations
370/329 ..Channel assignment
- 3 370/452 (1 OR, 2 XR)
Class 370 : MULTIPLEX COMMUNICATIONS
370/431 CHANNEL ASSIGNMENT TECHNIQUES
370/449 .Polling
370/450 ..Passing a signal identifying the idle or bus
y state of a channel (e.g., token passing)
370/451 ...On bus
370/452On ring or loop
- 3 455/69 (2 OR, 1 XR)
Class 455 : TELECOMMUNICATIONS
455/39 TRANSMITTER AND RECEIVER AT SEPARATE STATIONS

455/68 .With control signal
455/69 ..Transmitter controlled by signal feedback
from receiver

- 2 340/506 (1 OR, 1 XR)
Class 340 : COMMUNICATIONS: ELECTRICAL

```

                                10089421_CLSTITLES
340/500      CONDITION RESPONSIVE INDICATING SYSTEM
340/501      .With particular system function (e.g.,
              temperature compensation, calibration)
340/506      ..Alarm system supervision

2  340/539.1    (0 OR, 2 XR)
      Class 340 : COMMUNICATIONS: ELECTRICAL
340/500      CONDITION RESPONSIVE INDICATING SYSTEM
340/531      .With particular coupling link
340/539.1    ..Radio

2  340/825.5    (1 OR, 1 XR)
      Class 340 : COMMUNICATIONS: ELECTRICAL
340/825      SELECTIVE
340/825.5    .Lockout or priority (programmed or variable)

2  370/336      (0 OR, 2 XR)
      Class 370 : MULTIPLEX COMMUNICATIONS
370/310      COMMUNICATION OVER FREE SPACE
370/328      .Having a plurality of contiguous regions
              served by respective fixed stations
370/329      ..Channel assignment
370/336      ...Combining or distributing information via
              time channels

2  370/338      (2 OR, 0 XR)
      Class 370 : MULTIPLEX COMMUNICATIONS
370/310      COMMUNICATION OVER FREE SPACE
370/328      .Having a plurality of contiguous regions
              served by respective fixed stations
370/338      ..Contiguous regions interconnected by a local
              area network

2  370/462      (0 OR, 2 XR)
      Class 370 : MULTIPLEX COMMUNICATIONS
370/431      CHANNEL ASSIGNMENT TECHNIQUES
370/462      .Arbitration for access to a channel

2  370/468      (0 OR, 2 XR)
      Class 370 : MULTIPLEX COMMUNICATIONS
370/464      COMMUNICATION TECHNIQUES FOR INFORMATION
              CARRIED IN PLURAL CHANNELS
370/465      .Adaptive
370/468      ..Assignment of variable bandwidth or time
              period for transmission or reception

2  370/507      (0 OR, 2 XR)

```

10089421_CLSTITLES

Class 370 : MULTIPLEX COMMUNICATIONS

370/473 ..Transmission of a single message having multiple packets

370/498 .Combining or distributing information via time channels

370/503 ..Synchronizing

370/507 ...Mutual (reciprocal) synchronization

2 375/262 (2 OR, 0 XR)

Class 375 : PULSE OR DIGITAL COMMUNICATIONS

375/259 SYSTEMS USING ALTERNATING OR PULSATING CURRENT

375/260 .Plural channels for transmission of a single pulse train

375/261 ..Quadrature amplitude modulation

375/262 ...Maximum likelihood decoder or viterbi decoder

2 375/265 (0 OR, 2 XR)

Class 375 : PULSE OR DIGITAL COMMUNICATIONS

375/259 SYSTEMS USING ALTERNATING OR PULSATING CURRENT

375/260 .Plural channels for transmission of a single pulse train

375/261 ..Quadrature amplitude modulation

375/265 ...Trellis encoder or Trellis decoder

2 375/325 (0 OR, 2 XR)

Class 375 : PULSE OR DIGITAL COMMUNICATIONS

375/316 RECEIVERS

375/322 .Angle modulation

375/324 ..Particular demodulator

375/325 ...Including coherent detector

2 375/340 (0 OR, 2 XR)

Class 375 : PULSE OR DIGITAL COMMUNICATIONS

375/316 RECEIVERS

375/340 .Particular pulse demodulator or detector

2 375/341 (0 OR, 2 XR)

Class 375 : PULSE OR DIGITAL COMMUNICATIONS

375/316 RECEIVERS

375/340 .Particular pulse demodulator or detector

375/341 ..Maximum likelihood decoder or viterbi decoder

10089421_CLSTITLES

2 375/356 (1 OR, 1 XR)
 Class 375 : PULSE OR DIGITAL COMMUNICATIONS
 375/354 SYNCHRONIZERS
 375/356 .Network synchronizing more than two stations

2 455/426.1 (0 OR, 2 XR)
 Class 455 : TELECOMMUNICATIONS
 455/403 RADIOTELEPHONE SYSTEM
 455/422.1 .Zoned or cellular telephone system
 455/426.1 ..Including other radio communication system
 (e.g., cordless telephone, paging, trunking
 , etc.)

2 455/437 (1 OR, 1 XR)
 Class 455 : TELECOMMUNICATIONS
 455/403 RADIOTELEPHONE SYSTEM
 455/422.1 .Zoned or cellular telephone system
 455/436 ..Handoff
 455/437 ...Mobile assisted or initiated

2 455/439 (1 OR, 1 XR)
 Class 455 : TELECOMMUNICATIONS
 455/403 RADIOTELEPHONE SYSTEM
 455/422.1 .Zoned or cellular telephone system
 455/436 ..Handoff
 455/439 ...Handoff initiated by another source (e.g.,
 target, user initiated, mobile switching ce
 nter (MSC), or
 mobile telephone switching office (MTSO), e
 tc.)

2 455/553.1 (0 OR, 2 XR)
 Class 455 : TELECOMMUNICATIONS
 455/73 TRANSMITTER AND RECEIVER AT SAME STATION (E.G.
 TRANSCIVER)
 455/550.1 .Radiotelephone equipment detail
 455/552.1 ..Operable on more than one system
 455/553.1 ...Radiotelephone having plural transceivers
 (e.g., for analog and digital, trunking and
 cellular, etc.)

2 455/88 (0 OR, 2 XR)
 Class 455 : TELECOMMUNICATIONS
 455/73 TRANSMITTER AND RECEIVER AT SAME STATION (E.G.

10089421_CLSTITLES

TRANSCĒIVER)

455/88 .Transceiver controlling a separate transceive
r
or receiver

2 714/792 (0 OR, 2 XR)

Class 714 : ERROR DETECTION/CORRECTION AND FAULT
DETECTION/RECOVERY

714/699 PULSE OR DATA ERROR HANDLING

714/746 .Digital data error correction

714/786 ..Forward error correction by tree code (e.g.,
convolutional)

714/792 ...Trellis code

2 714/794 (0 OR, 2 XR)

Class 714 : ERROR DETECTION/CORRECTION AND FAULT
DETECTION/RECOVERY

714/699 PULSE OR DATA ERROR HANDLING

714/746 .Digital data error correction

714/786 ..Forward error correction by tree code (e.g.,
convolutional)

714/794 ...Maximum likelihood

2 714/795 (0 OR, 2 XR)

Class 714 : ERROR DETECTION/CORRECTION AND FAULT
DETECTION/RECOVERY

714/699 PULSE OR DATA ERROR HANDLING

714/746 .Digital data error correction

714/786 ..Forward error correction by tree code (e.g.,
convolutional)

714/795 ...Viterbi decoding

10089421_CLS
Most Frequently Occurring Classifications of Patents Returned
From A Search of 10089421 on September 22, 2004

Original Classifications

2 370/338
2 375/262
2 455/436
2 455/69

Cross-Reference Classifications

4 455/522
3 455/436
2 340/539.1
2 370/329
2 370/336
2 370/452
2 370/462
2 370/468
2 370/507
2 375/265
2 375/325
2 375/340
2 375/341
2 455/426.1
2 455/553.1
2 455/88
2 714/792
2 714/794
2 714/795

Combined Classifications

5 455/436
4 455/522
3 370/329
3 370/452
3 455/69
2 340/506
2 340/539.1
2 340/825.5
2 370/336
2 370/338
2 370/462
2 370/468
2 370/507
2 375/262
2 375/265
2 375/325

10089421_CLS

2 375/340
2 375/341
2 375/356
2 455/426.1
2 455/437
2 455/439
2 455/553.1
2 455/88
2 714/792
2 714/794
2 714/795